

Claims

1. (currently amended) A method of protecting contents against the deleterious effects of ultraviolet radiation,

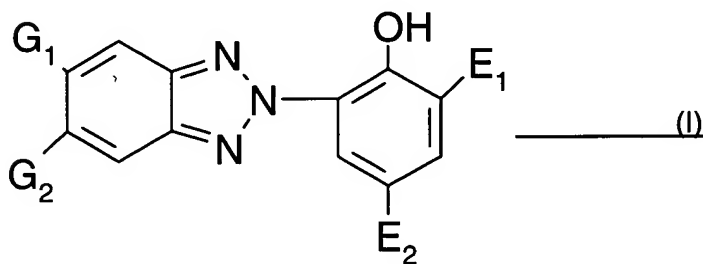
which method comprises storing the contents in a clear or lightly colored rigid plastic container or film for content storage which protects the contents therein against the deleterious effects of ultraviolet radiation,

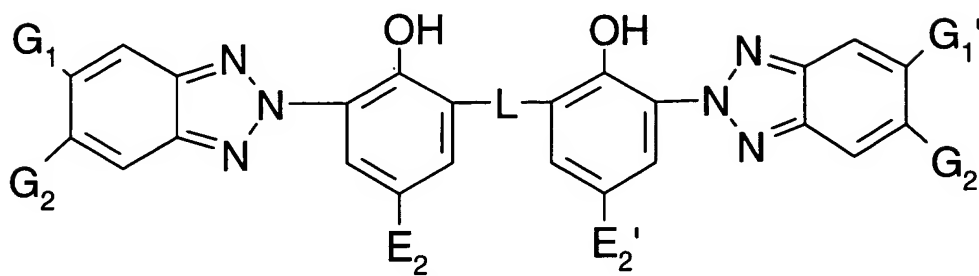
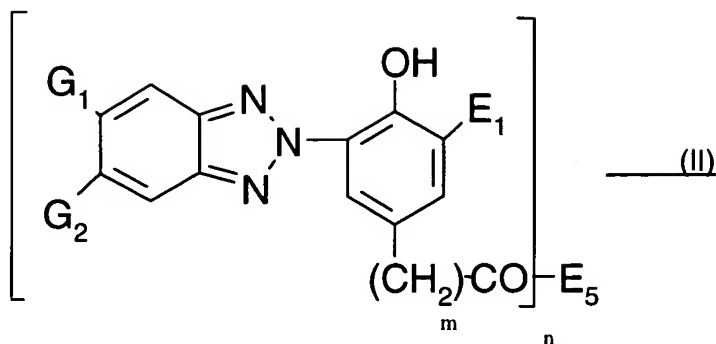
which container comprises

(a) a clear or lightly colored plastic, and

(b) an effective stabilizing amount of one or more compounds selected from the group consisting of the durable hydroxyphenyl benzotriazole and tris-aryl triazine UV absorbers,

wherein said benzotriazole UV absorbers are of formula (I), (II) or (III)





(III)

wherein

G₁ and G₁' are independently hydrogen or halogen,

G₂ and G₂' are independently halogen, nitro, cyano, perfluoroalkyl of 1 to 12 carbon atoms, -COOG₃, -P(O)(C₆H₅)₂, -CO-G₃, -CO-NH-G₃, -CO-N(G₃)₂, -N(G₃)-CO-G₃, E₃SO- or E₃SO₂-; or G₂' is also hydrogen,

G₃ is hydrogen, straight or branched chain alkyl of 1 to 24 carbon atoms, straight or branched chain alkenyl of 2 to 18 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, phenylalkyl of 7 to 15 carbon atoms, phenyl, or said phenyl or said phenylalkyl substituted on the phenyl ring by 1 to 4 alkyl of 1 to 4 carbon atoms,

E₁ is hydrogen, straight or branched chain alkyl of 1 to 24 carbon atoms, straight or branched chain alkenyl of 2 to 24 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, phenylalkyl of 7 to 15 carbon atoms, phenyl, or said phenyl or said phenylalkyl substituted on the phenyl ring by 1 to 4 alkyl

of 1 to 4 carbon atoms; or E_1 is alkyl of 1 to 24 carbon atoms substituted by one or two hydroxy groups,

when E_1 is phenylalkyl of 7 to 15 carbon atoms or phenyl, or said phenyl or said phenylalkyl substituted on the phenyl ring by 1 to 4 alkyl of 1 to 4 carbon atoms, G_2 may also be hydrogen,

E_2 and E_2' are independently straight or branched alkyl chain of 1 to 24 carbon atoms, straight or branched chain alkenyl of 2 to 18 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, phenylalkyl of 7 to 15 carbon atoms, phenyl, or said phenyl or said phenylalkyl substituted on the phenyl ring by one to three alkyl of 1 to 4 carbon atoms; or E_2 and E_2' are independently said alkyl of 1 to 24 carbon atoms or said alkenyl of 2 to 18 carbon atoms substituted by one or more -OH, -OCOE₁₁, -OE₄, -NCO, -NH₂, -NHCOE₁₁, -NHE₄ or -N(E₄)₂, or mixtures thereof, where E_4 is straight or branched chain alkyl of 1 to 24 carbon atoms; or said alkyl or said alkenyl interrupted by one or more -O-, -NH- or -NE₄- groups or mixtures thereof and which can be unsubstituted or substituted by one or more -OH, -OE₄ or -NH₂ groups or mixtures thereof;

n is 1 or 2,

when n is 1, E_5 is OE₆ or NE₇E₈, or

E_5 is -PO(OE₁₂)₂, -OSi(E₁₁)₃ or -OCO-E₁₁,

or straight or branched chain C₁-C₂₄alkyl which is interrupted by -O-, -S- or -NE₁₁ and which can be unsubstituted or substituted by -OH or -OCO-E₁₁, C₅-C₁₂ cycloalkyl which is unsubstituted or substituted by -OH, straight chain or branched C₂-C₁₈alkenyl which is unsubstituted or substituted by -OH, C₇-C₁₅aralkyl, -CH₂-CHOH-E₁₃ or glycidyl,

E_6 is hydrogen, straight or branched chain C₁-C₂₄alkyl which is unsubstituted or substituted by one or more OH, OE₄ or NH₂ groups, or -OE₆ is -(OCH₂CH₂)_wOH or -(OCH₂CH₂)_wOE₂₁ where w is 1 to 12 and E_{21} is alkyl of 1 to 12 carbon atoms,

E_7 and E_8 are independently hydrogen, alkyl of 1 to 18 carbon atoms, straight or branched chain C₃-C₁₈alkyl which is interrupted by -O-, -S- or -NE₁₁, C₅-C₁₂cycloalkyl, C₆-C₁₄aryl or C₁-C₃hydroxylalkyl, or E_7 and E_8 together with the N atom are a pyrrolidine, piperidine, piperazine or morpholine ring,

E_5 is -X-(Z)₆-Y-E₁₅

wherein

X is -O- or -N(E₁₆)-.

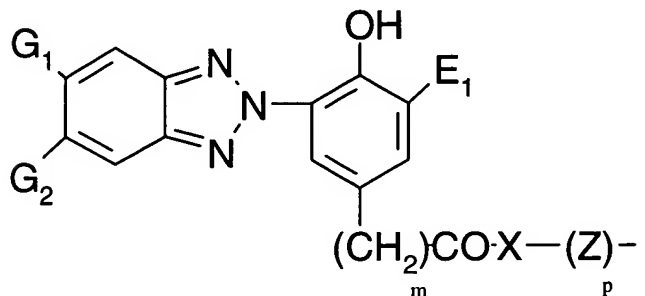
Y is -O- or -N(E₁₇)-.

Z is C₂-C₁₂-alkylene, C₄-C₁₂-alkylene interrupted by one to three nitrogen atoms, oxygen atoms or a mixture thereof, or is C₃-C₁₂-alkylene, butenylene, butynylene, cyclohexylene or phenylene, each substituted by a hydroxyl group,

m is zero, 1 or 2,

p is 1, or p is also zero when X and Y are -N(E₁₆)- and -N(E₁₇)-, respectively,

E₁₅ is a group -CO-C(E₁₈)=C(H)E₁₉ or, when Y is -N(E₁₇)-, forms together with E₁₇ a group -CO-CH=CH-CO-, wherein E₁₈ is hydrogen or methyl, and E₁₉ is hydrogen, methyl or -CO-X-E₂₀, wherein E₂₀ is hydrogen, C₁-C₁₂-alkyl or a group of the formula

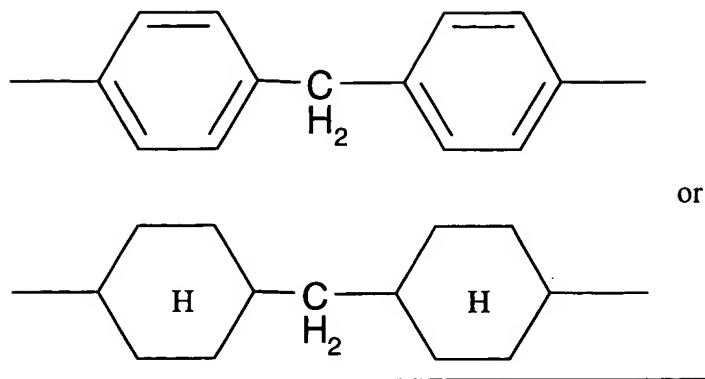


wherein the symbols E₁, G₂, X, Z, m and p have the meanings defined above, and E₁₆ and E₁₇ independently of one another are hydrogen, C₁-C₁₂-alkyl, C₃-C₁₂-alkyl interrupted by 1 to 3 oxygen atoms, or is cyclohexyl or C₇-C₁₅-aralkyl, and E₁₆ together with E₁₇ in the case where Z is ethylene, also forms ethylene,

when n is 2, one of G₂ is also hydrogen, E₅ is one of divalent radicals -O-E₉-O- or -N(E₁₁)-E₁₀-N(E₁₁)-,

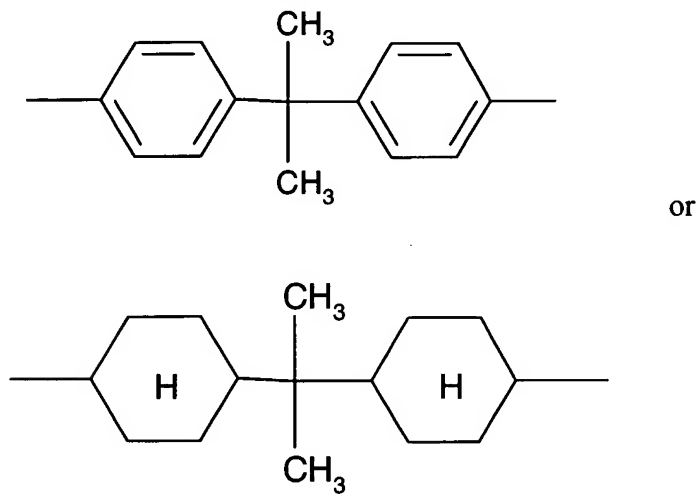
E₉ is C₂-C₈-alkylene, C₄-C₈-alkenylene, C₃-alkynylene, cyclohexylene, straight or branched chain C₄-C₁₀-alkylene which is interrupted by -O- or by -CH₂-CHOH-CH₂-O-E₁₄-O-CH₂-CHOH-CH₂-,

E₁₀ being straight or branched chain C₂-C₁₂-alkylene which may be interrupted by -O-, cyclohexylene, or



or E_{10} and E_{11} with the two nitrogen atoms form a piperazine ring.

E_{14} is straight or branched chain C_2 - C_8 alkylene, straight or branched chain C_4 - C_{10} alkylene which is interrupted by -O-, cycloalkylene, arylene or



where E_7 and E_8 are independently hydrogen, alkyl of 1 to 18 carbon atoms or E_7 and E_8 together are alkylene of 4 to 6 carbon atoms, 3-oxapentamethylene, 3-iminopentamethylene or 3-methyliminopentamethylene.

E_{11} is hydrogen, straight or branched chain C_1 - C_{18} alkyl, C_5 - C_{12} cycloalkyl, straight or branched chain C_2 - C_{18} alkenyl, C_6 - C_{14} aryl or C_7 - C_{15} aralkyl.

E_{12} is straight or branched chain C_1 - C_{18} alkyl, straight or branched chain C_3 - C_{18} alkenyl, C_5 - C_{10} cycloalkyl, C_6 - C_{16} aryl or C_7 - C_{15} aralkyl.

E_{13} is H, straight chain or branched C_1 - C_{18} alkyl which is substituted by $-\text{PO}(\text{OE}_{12})_2$, phenyl which is unsubstituted or substituted by OH, C_7 - C_{15} aralkyl or $-\text{CH}_2\text{OE}_{12}$.

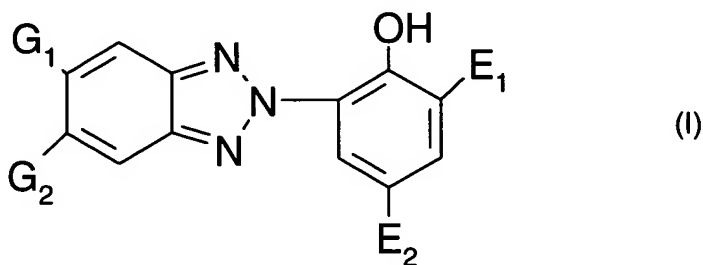
E₃ is alkyl of 1 to 20 carbon atoms, hydroxyalkyl of 2 to 20 carbon atoms, alkyl substituted by alkoxy carbonyl of 2 to 9 carbon atoms, alkenyl of 3 to 18 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, phenylalkyl of 7 to 15 carbon atoms, aryl of 6 to 10 carbon atoms or said aryl substituted by one or two alkyl of 1 to 4 carbon atoms or 1,1,2,2-tetrahydroperfluoroalkyl where the perfluoroalkyl moiety is of 6 to 16 carbon atoms, and

L is alkylene of 1 to 12 carbon atoms, alkylidene of 2 to 12 carbon atoms, benzylidene, p-xylylene, $\alpha,\alpha,\alpha',\alpha'$ -tetramethyl-m-xylylene or cycloalkylidene; and

with the proviso that formula (I) does not represent 5-chloro-2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole, 5-chloro-2-(2-hydroxy-3-tert-butyl-5-methylphenyl)-2H-benzotriazole or 2-(2-hydroxy-3,5-di- α -cumyl)-2H-benzotriazole.

2. (canceled)

3. (currently amended) A ~~method plastic container or film~~ according to claim **12** wherein said benzotriazole UV absorbers are of formula (I)



wherein

G₁ is hydrogen,

G₂ is hydrogen, cyano, chloro, fluoro, CF₃-, -CO-G₃, E₃SO- or E₃SO₂-,

G₃ is straight or branched chain alkyl of 1 to 24 carbon atoms, straight or branched chain alkenyl of 2 to 18 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, phenylalkyl of 7 to 15 carbon atoms, phenyl, or said phenyl or said phenylalkyl substituted on the phenyl ring by 1 to 4 alkyl of 1 to 4 carbon atoms,

E₁ is phenylalkyl of 7 to 15 carbon atoms, phenyl, or said phenyl or said phenylalkyl substituted on the phenyl ring by 1 to 4 alkyl of 1 to 4 carbon atoms,

E₂ is straight or branched alkyl chain of 1 to 24 carbon atoms, straight or branched chain alkenyl of 2 to 18 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, phenylalkyl of 7 to 15 carbon atoms, phenyl, or said phenyl or said phenylalkyl substituted on the phenyl ring by 1 to 3 alkyl of 1 to 4 carbon atoms; or E₂ is said alkyl of 1 to 24 carbon atoms or said alkenyl of 2 to 18 carbon atoms substituted by one or more -OH, -OCOE₁₁, -OE₄, -NCO, -NH₂, -NHCOE₁₁, -NHE₄ or -N(E₄)₂, or mixtures thereof, where E₄ is straight or branched chain alkyl of 1 to 24 carbon atoms; or said alkyl or said alkenyl interrupted by one or more -O-, -NH- or -NE₄- groups or mixtures thereof and which can be unsubstituted or substituted by one or more -OH, -OE₄ or -NH₂ groups or mixtures thereof;

E₃ is alkyl of 1 to 20 carbon atoms, hydroxyalkyl of 2 to 20 carbon atoms, alkenyl of 3 to 18 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, phenylalkyl of 7 to 15 carbon atoms, aryl of 6 to 10 carbon atoms or said aryl substituted by one or two alkyl of 1 to 4 carbon atoms or 1,1,2,2-tetrahydroperfluoroalkyl where the perfluoroalkyl moiety is of 6 to 16 carbon atoms;

or is a compound of formula (I)

wherein,

G₁ is hydrogen,

G₂ is chloro, fluoro, CF₃-, E₃SO- or E₃SO₂-,

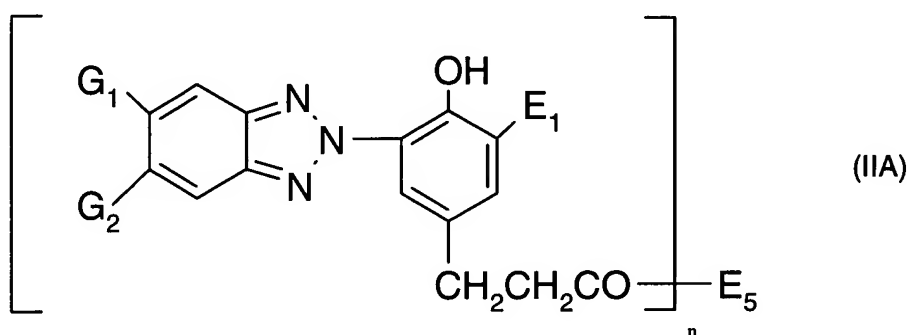
E₁ is hydrogen or straight or branched alkyl of 1 to 24 carbon atoms,

E₂ is as defined above, and

E₃ is straight or branched chain alkyl of 1 to 7 carbon atoms; and

with the proviso that formula (I) does not represent 5-chloro-2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole, 5-chloro-2-(2-hydroxy-3-tert-butyl-5-methylphenyl)-2H-benzotriazole or 2-(2-hydroxy-3,5-di- α -cumyl)-2H-benzotriazole.

4. (currently amended) A ~~method plastic container or film~~ according to claim 12 wherein said benzotriazole UV absorbers of formula (II) are of the formula (IIA)



wherein

G₁ is hydrogen,

G₂ is CF₃- or fluoro,

E₁ is hydrogen, straight or branched alkyl of 1 to 24 carbon atoms or phenylalkyl of 7 to 15 carbon atoms,

when E₁ is phenylalkyl of 7 to 15 carbon atoms, G₂ may also be hydrogen,

E₅ is -OE₆ or -NE₇E₈, or

E_5 is

$-X-(Z)_p-Y-E_{15}$

wherein

X is $-O-$ or $-N(E_{16})-$,

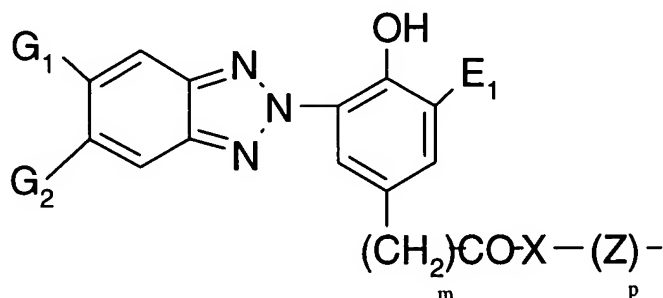
Y is $-O-$ or $-N(E_{17})-$,

Z is C_2-C_{12} -alkylene, C_4-C_{12} -alkylene interrupted by one to three nitrogen atoms, oxygen atoms or a mixture thereof, or is C_3-C_{12} -alkylene, butenylene, butynylene, cyclohexylene or phenylene, each substituted by a hydroxyl group,

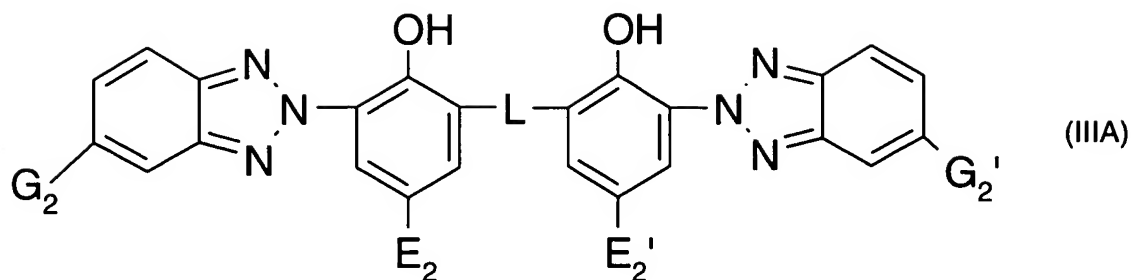
m is 0, 1, 2 or 3,

p is 1, or p is also zero when X and Y are $-N(E_{16})-$ and $-N(E_{17})-$, respectively,

E_{15} is a group $-CO-C(E_{18})=C(H)E_{19}$ or, when Y is $-N(E_{17})-$, forms together with E_{17} a group $-CO-CH=CH-CO-$, wherein E_{18} is hydrogen or methyl, and E_{19} is hydrogen, methyl or $-CO-X-E_{20}$, wherein E_{20} is hydrogen, C_1-C_{12} -alkyl or a group of the formula



5. (currently amended) A method plastic container or film according to claim 12 wherein said benzotriazole UV absorbers ~~are of formula (III)~~ are of the formula (IIIA)



wherein

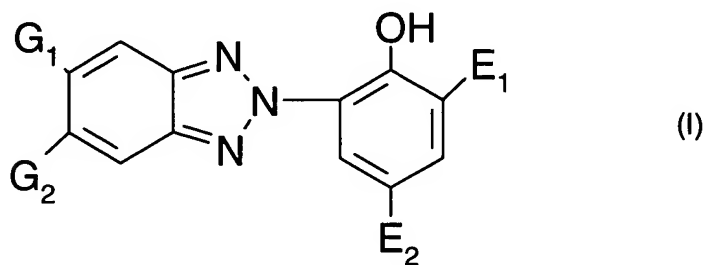
G_2 is CF_3 ,

G_2' is hydrogen or CF_3 ,

E_2 and E_2' are independently straight or branched alkyl chain of 1 to 24 carbon atoms, straight or branched chain alkenyl of 2 to 18 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, phenylalkyl of 7 to 15 carbon atoms, phenyl, or said phenyl or said phenylalkyl substituted on the phenyl ring by 1 to 3 alkyl of 1 to 4 carbon atoms; and

L is alkylene of 1 to 12 carbon atoms, alkylidene of 2 to 12 carbon atoms, benzylidene, p-xylylene, $\alpha,\alpha,\alpha',\alpha'$ -tetramethyl-m-xylylene or cycloalkylidene.

6. (currently amended) A ~~method plastic container or film~~ according to claim **12** wherein said benzotriazole UV absorbers are of formula (I)



wherein

G₁ is hydrogen,

G₂ is CF₃-,

E₁ is phenylalkyl of 7 to 15 carbon atoms, phenyl, or said phenyl or said phenylalkyl substituted on the phenyl ring by 1 to 4 alkyl of 1 to 4 carbon atoms,

E₂ is straight or branched alkyl chain of 1 to 24 carbon atoms, straight or branched chain alkenyl of 2 to 18 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, phenylalkyl of 7 to 15 carbon atoms, phenyl, or said phenyl or said phenylalkyl substituted on the phenyl ring by 1 to 3 alkyl of 1 to 4 carbon atoms; or E₂ is said alkyl of 1 to 24 carbon atoms or said alkenyl of 2 to 18 carbon atoms substituted by one or more -OH, -OCOE₁₁, -NH₂ or -NHCOE₁₁, or mixtures thereof, or said alkyl or said alkenyl interrupted by one or more -O- and which can be unsubstituted or substituted by one or more -OH,

or is a compound of formula (I) wherein,

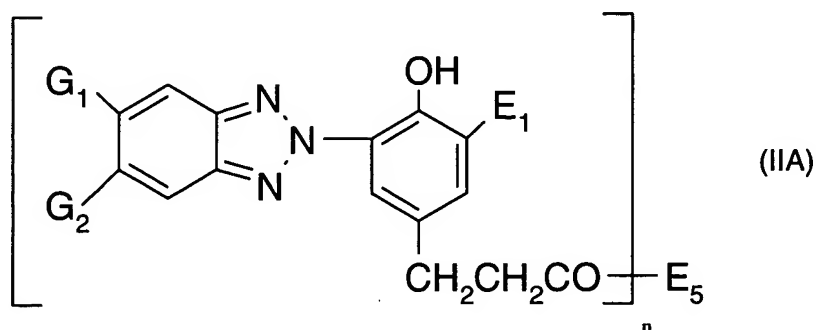
G₁ is hydrogen,

G₂ is CF₃-,

E₁ is hydrogen, straight or branched alkyl of 4 to 24 carbon atoms or phenylalkyl of 7 to 15 carbon atoms, and

E₂ is straight or branched alkyl chain of 1 to 24 carbon atoms, straight or branched chain alkenyl of 2 to 18 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, phenylalkyl of 7 to 15 carbon atoms, phenyl, or said phenyl or said phenylalkyl substituted on the phenyl ring by 1 to 3 alkyl of 1 to 4 carbon atoms; or E₂ is said alkyl of 1 to 24 carbon atoms or said alkenyl of 2 to 18 carbon atoms substituted by one or more -OH, -OCOE₁₁, -NH₂ or -NHCOE₁₁, or mixtures thereof, or said alkyl or said alkenyl interrupted by one or more -O- and which can be unsubstituted or substituted by one or more -OH.

7. (currently amended) A ~~method plastic container or film~~ according to claim **12** wherein said benzotriazole UV absorbers of formula (II) are of the formula (IIA)



wherein

G_1 is hydrogen,

G_2 is CF_3 -,

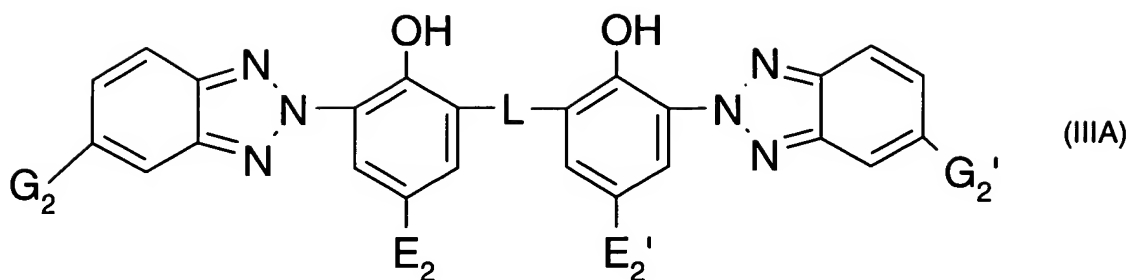
E_1 is hydrogen, straight or branched alkyl of 4 to 24 carbon atoms or phenylalkyl of 7 to 15 carbon atoms,

E_5 is $-OE_6$ or $-NE_7E_8$ where

E_6 is hydrogen, straight or branched chain C_1 - C_{24} alkyl which is unsubstituted or substituted by one or more OH groups, or $-OE_6$ is $-(OCH_2CH_2)_wOH$ or $-(OCH_2CH_2)_wOE_{21}$ where w is 1 to 12 and E_{21} is alkyl of 1 to 12 carbon atoms, and

E_7 and E_8 are independently hydrogen, alkyl of 1 to 18 carbon atoms, straight or branched chain C_3 - C_{18} alkyl which is interrupted by $-O-$, $-S-$ or $-NE_{11}-$, C_5 - C_{12} cycloalkyl, C_6 - C_{14} aryl or C_1 - C_3 hydroxylalkyl, or E_7 and E_8 together with the N atom are a pyrrolidine, piperidine, piperazine or morpholine ring.

8. (currently amended) A ~~method plastic container or film~~ according to claim **12** wherein said benzotriazole UV absorbers of formula (III) are of the formula (IIIA)



wherein

G₂ is CF₃,

G_{2'} is hydrogen or CF₃,

E₂ and E_{2'} are independently straight or branched alkyl chain of 1 to 24 carbon atoms, straight or branched chain alkenyl of 2 to 18 carbon atoms, cycloalkyl of 5 to 12 carbon atoms, phenylalkyl of 7 to 15 carbon atoms, phenyl, or said phenyl or said phenylalkyl substituted on the phenyl ring by 1 to 3 alkyl of 1 to 4 carbon atoms; and

L is methylene.

9. (currently amended) A ~~method plastic container or film~~ according to claim **12** wherein said benzotriazole UV absorbers are selected from the group consisting of

- (a) 5-trifluoromethyl-2-(2-hydroxy-3- α -cumyl-5-tert-octylphenyl)-2H-benzotriazole;
- (b) 5-trifluoromethyl-2-(2-hydroxy-5-tert-octylphenyl)-2H-benzotriazole;
- (c) 5-trifluoromethyl-2-(2-hydroxy-3,5-di-tert-octylphenyl)-2H-benzotriazole;
- (d) 2,2'-methylene-bis[6-(5-trifluoromethyl-2H-benzotriazol-2-yl)-4-tert-octylphenol];
- (e) methylene-2-[4-tert-octyl-6-(2H-benzotriazol-2-yl)phenol]2'-[4-tert-butyl-6-(5-trifluoromethyl-2H-benzotriazol-2-yl)phenol];
- (f) 3-(5-trifluoromethyl-2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyhydrocinnamic acid;
- (g) methyl 3-(5-trifluoromethyl-2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyhydrocinnamate;
- (h) isooctyl 3-(5-trifluoromethyl-2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyhydrocinnamate;

- (i) 5-trifluoromethyl-2-[2-hydroxy-5-(3-hydroxypropyl)phenyl]-2H-benzotriazole;
- (j) 5-butylsulfonyl-2-(2-hydroxy-3- α -cumyl-5-tert-octylphenyl)-2H-benzotriazole;
- (k) 5-octylsulfonyl-2-(2-hydroxy-3,5-di- α -cumylphenyl)-2H-benzotriazole;
- (l) 5-dodecylsulfonyl-2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole;
- (m) 5-octylsulfonyl-2-(2-hydroxy-3,5-di-tert-octylphenyl)-2H-benzotriazole;
- (n) 5-trifluoromethyl-2-(2-hydroxy-3- α -cumyl-5-tert-butylphenyl)-2H-benzotriazole;
- (o) 5-trifluoromethyl-2-(2-hydroxy-3- α -cumyl-5-nonylphenyl)-2H-benzotriazole;
- (p) 5-trifluoromethyl-2-[2-hydroxy-3- α -cumyl-5-(2-hydroxyethyl)phenyl]-2H-benzotriazole;
- (q) 5-trifluoromethyl-2-[2-hydroxy-3- α -cumyl-5-(3-hydroxypropyl)phenyl]-2H-benzotriazole;
- (r) 5-trifluoromethyl-2-(2-hydroxy-3,5-di-tert-amylphenyl)-2H-benzotriazole;
- (s) 5-trifluoromethyl-2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole;
- (t) 5-trifluoromethyl-2-(2-hydroxy-3-dodecyl-5-methylphenyl)-2H-benzotriazole;
- (u) 5-trifluoromethyl-2-[2-hydroxy-3-tert-butyl-5-(3-hydroxypropyl)phenyl]-2H-benzotriazole;
- (v) 5-trifluoromethyl-2-[2-hydroxy-3-tert-butyl-5-(2-hydroxyethyl)phenyl]-2H-benzotriazole;
- (w) 5-trifluoromethyl-2-[2-hydroxy-5-(2-hydroxyethyl)phenyl]-2H-benzotriazole;
- (x) 5-trifluoromethyl-2-(2-hydroxy-3,5-di- α -cumylphenyl)-2H-benzotriazole;
- (y) 5-fluoro-2-(2-hydroxy-3,5-di- α -cumylphenyl)-2H-benzotriazole;
- (z) 5-butylsulfonyl-2-(2-hydroxy-3,5-di- α -cumylphenyl)-2H-benzotriazole;
- (aa) 5-butylsulfonyl-2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole;
- (bb) 5-butylsulfonyl-2-(2-hydroxy-3,5-di-tert-octylphenyl)-2H-benzotriazole;
- (cc) 5-phenylsulfonyl-2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole;
- (dd) 5-chloro-2-(2-hydroxy-3,5-di- α -cumylphenyl)-2H-benzotriazole;
- (ee) 5-chloro-2-(2-hydroxy-3- α -cumyl-5-tert-octylphenyl)-2H-benzotriazole;
- (ff) isooctyl 3-(5-chloro-2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyhydrocinnamate; and
- (gg) 2-(2-hydroxy-3- α -cumyl-5-tert-octylphenyl)-2H-benzotriazole.

10. (currently amended) A method plastic container or film according to claim **12** wherein said benzotriazole UV absorbers are selected from the group consisting of

- (a) 5-trifluoromethyl-2-(2-hydroxy-3- α -cumyl-5-tert-octylphenyl)-2H-benzotriazole;
- (b) 5-trifluoromethyl-2-(2-hydroxy-5-tert-octylphenyl)-2H-benzotriazole;
- (c) 5-trifluoromethyl-2-(2-hydroxy-3,5-di-tert-octylphenyl)-2H-benzotriazole;

- (g) methyl 3-(5-trifluoromethyl-2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyhydrocinnamate;
- (j) 5-butylsulfonyl-2-(2-hydroxy-3- α -cumyl-5-tert-octylphenyl)-2H-benzotriazole;
- (n) 5-trifluoromethyl-2-(2-hydroxy-3- α -cumyl-5-tert-butylphenyl)-2H-benzotriazole;
- (s) 5-trifluoromethyl-2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole;
- (x) 5-trifluoromethyl-2-(2-hydroxy-3,5-di- α -cumylphenyl)-2H-benzotriazole;
- (aa) 5-butylsulfonyl-2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole; and
- (cc) 5-phenylsulfonyl-2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole.

11-18. (canceled)

19. (currently amended) A ~~method plastic container or film~~ according to claim 1 ~~which wherein said~~ container comprises at least one hydroxyphenyl benzotriazole UV absorber and at least one further UV absorber selected from the group consisting of the tris-aryl-s-triazine UV absorbers, or which comprises a mixture of two or more hydroxyphenyl benzotriazole UV absorberse ~~or two or more tris-aryl-s-triazines.~~

20. (currently amended) A ~~method plastic container or film~~ according to claim 1 ~~which wherein said~~ container additionally comprises at least one UV absorber selected from the group consisting of 2-(2-hydroxy-3,5-di- α -cumyl)-2H-benzotriazole, 5-chloro-2-(2-hydroxy-3-tert-butyl-5-methylphenyl)-2H-benzotriazole, 5-chloro-2-(2-hydroxy-3,5-di-tert-butylphenyl)-2H-benzotriazole and 4,6-diphenyl-2-(4-hexyloxy-2-hydroxyphenyl)-s-triazine.

21. (currently amended) A ~~method plastic container or film~~ according to claim 1 in which said contents are selected from the group consisting of fruit juices, soft drinks, beer, wines, meats, vegetables, food products, dairy products, personal care products, cosmetics, shampoos, vitamins, pharmaceuticals, inks, dyes and pigments.

22. (currently amended) A ~~method plastic container or film~~ according to claim 1 ~~which wherein said~~ container is a ~~rigid or flexible~~ mono- or multi-layered container ~~packaging material~~

wherein each layer is comprised of one or more polymers selected from the group consisting of polyesters, polyolefins, polyolefin copolymers, polyethylene-vinyl acetate, polystyrene, poly(vinyl chloride), poly(vinylidene chloride), polyamides, cellulose, polycarbonates, polyethylene-vinyl alcohol, poly(vinyl alcohol), poly(vinyl alcohol) copolymers, polystyrene-acrylonitrile, ionomers, partially hydrolyzed poly(vinyl acetate), poly(ethylene-co-vinyl alcohol), polyvinylidene chloride, polyurethanes, polyvinylidene chloride PVDC and polyepoxies.

23. (currently amended) A ~~method plastic container or film~~ according to claim 22 in which at least one layer is comprised of a polymer selected from the group consisting of poly(ethylene terephthalate), polyethylene and polypropylene.

24. (currently amended) A ~~method packaging material~~ according to claim 22 wherein the UV absorbers of ~~component (b)~~ are incorporated into a coating applied to the outer surface of the ~~container packaging material~~.

25. (currently amended) A ~~method plastic container or film~~ according to claim 1 in which the UV absorbers of ~~component (b)~~ are present from about 0.1 to about 20 % by weight based on the weight of the plastic container ~~or film~~.

26. (currently amended) A ~~method plastic container or film~~ according to claim 1 ~~which~~ where the container additionally comprises at least one coadditive selected from the group consisting of anti-oxidants, other UV absorbers, hindered amines, phosphites or phosphonites, hydroxylamines, nitrones, benzofuran-2-ones, thiosynergists, polyamide stabilizers, metal stearates, nucleating agents, fillers, reinforcing agents, lubricants, emulsifiers, dyes, pigments, optical brighteners, flame retardants, antistatic agents and blowing agents.